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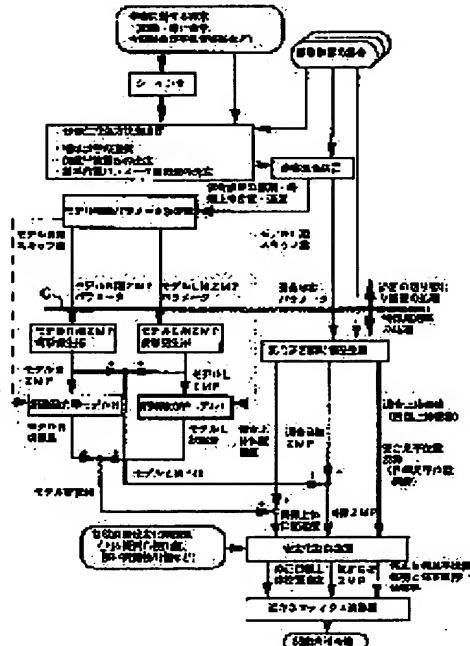
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(54) WALKING ATTITUDE PRODUCING DEVICE OF MOBILE ROBOT WITH LEGS

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a walking attitude producing device for a leg type mobile robot, in particular a two-foot walking robot, with which it is practicable to produce any desired walking attitude to enable continuous walking for a long period.

SOLUTION: Two walking attitudes are produced for one step, and if there is any discontinuous quantity at their boundary such as the position and/or speed of the upper body of robot, or ZMP(zero moment point), the input obtained on the basis of the inverse number of the discontinuous quantity is given to a perturbational dynamic model so as to cancel the discontinuous quantity, and the produced walking attitude is corrected with the output, and a walking attitude is accomplished which has a continuous robot upper body position and/or speed or ZMP even at the boundary.



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